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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,272	09/10/2003	Jin-Hee Kim	1567.1054	4031
.,	7590 08/06/200 'EN & BUI, LLP	EXAMINER		
1400 EYE STREET, NW			WEINER, LAURA S	
SUITE 300 WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			1795	
			MAIL DATE	DELIVERY MODE
			08/06/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/658,272	KIM ET AL.			
Office Action Summary	Examiner	Art Unit			
	/Laura S. Weiner/	1795			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 11 Ju This action is FINAL . 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1,2 and 4-21 is/are pending in the app 4a) Of the above claim(s) 13-20 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1,2,4-12 and 21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examines 10) The drawing(s) filed on is/are: a) access	rn from consideration. relection requirement.	- - - - -			
 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7-25-08.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7-11-2008 has been entered.

Election/Restrictions

- 2. Applicant's election with traverse of Group I, claims 1-20 (claim 3 has been cancelled) in the reply filed on 8-18-06 is acknowledged. The election of species of additive of Formula (1), (bisphenol A) where R1 and R2 are hydroxyl groups and R3, R4 are methyl groups and a solvent comprising a cyclic carbonate and a linear carbonate is acknowledged. Group II, claim 21 has also been examined. Formula (1) has been found allowable. An additive comprising compound Formula (3) has also been examined.
- 3. Claims 13-20 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention and species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 8-18-06.

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Specification

4. The disclosure is objected to because of the following informalities: The specification is objected to because Formula 3 contains a compound that contains 5 bonds in two different places of the intersection of the two aromatic rings.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

5. Claims 1, 4-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is rejected because Formula 3 contains a compound that contains 5 bonds in two different places of the intersection of the two aromatic rings.

Claim 1 is rejected because it is unclear what the definition of R' is defining Formula 6 because there is a missing ")". This makes the claim very vague and indefinite.

Claim Rejections - 35 USC § 102

6. Claims 1, 4-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Song et al. (7,150,944).

Song et al. teaches in column 2, an electrolyte comprising a non-aqueous carbonate-based solvent and a monomer selected from benzothiophene [formula 3],

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etc. The electrolyte is prepared by adding the monomers in 5 wt% or less and preferably less than 2 wt% of the nonaqueous carbonate-based solvent. Song et al. teaches in column 3, that the carbonate solvent can be EC, PC, DEC, DMC, EMC, etc. and the salt can be LiBF4, LiPF6, etc. Song et al. teaches in the Examples that the solvent comprises EC, EMC and DEC.

7. Claims 1-2, 4-12, 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Maekawa (JP 2001-015172, translation).

Maekawa teaches on page 6 of translation, that the electrolyte comprises aromatic compounds 0.05-5 wt% of benzofuran, benzothiophene, etc. The solvent can be PC, EC, DEC, MEC, etc. and a salt such as LiPF6, LiBF4, etc. Maekawa teaches on page 12, that the electrolyte comprises DEC and EC.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to /Laura S. Weiner/ whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Laura S Weiner/ Primary Examiner Art Unit 1795

August 4, 2008